

# **Rocky Flats Environmental Technology Site**

## RECONNAISSANCE LEVEL CHARACTERIZATION

## RADIOLOGICAL CHARACTERIZATION PLAN

**GROUP 12 CLOSURE PROJECT** (452, S452, T428B, and T452A-G)

### **REVISION 0**

**November 5, 2001** 

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Prepared by: Jay Briten R	adiological Engineer	Date
Reviewed by: Quane Parsons	s, Facility Characterization Coordinator	Date 11/6/01
Reviewed by:  Paul Miles, Qu	Assurance	Date ///7/0/
JAKE HOUGHS	osure Project Facility Manager	Date 11/761
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### Notes and Assumptions

- This characterization Plan was prepared in accordance with MAN-077-DDCP, D&D Characterization Protocols (04/23/01), and MAN-127-PDSP, Pre-Demolition Survey Plan for D&D Facilities (04/23/01)
- PDSP Data Quality Objectives were used to develop this characterization plan

#### Instructions

- 1 Verify characterization activities are on the Plan-of-the-Day (POD)
- 2 Perform a Pre-Evolution Brief and/or Job Task Brief in accordance with the Site Conduct of Operations Manual
- 3 Verify personnel have appropriate training for the applicable tasks they will be performing
- 4 Comply with RWP requirements, if applicable
- 5 Comply with JHA and facility PPE requirements, as applicable
- 6 Inform the Facility Manager, or designee prior to starting characterization activities
- 7 Follow applicable characterization and sampling procedures
- 8 Notify Wackenhut Security (x2444) and the Shift Supervisor (x2914), and verify appropriate safety precautions/requirements are followed prior to accessing facility roofs
- 9 Coordination with the Environmental Restoration Program organization will be required to further characterize underneath facility foundations and slabs prior to removal
- 10 Collect and maintain all characterization paperwork in the Characterization Project File(s)
- 11 All radiological surveys shall be conducted in accordance with the sampling and instruction forms included in Group 12 Survey Unit Package(s) Sample locations are denoted on scaled maps attached to each survey unit package



Class 2 Areas	reas									
N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	No Class 2 Areas identified in this characterization unit Historical Site Assessment and process knowledge indicate no need for this classification
			Class 2 Totals	0	0	0	0	0	0	

No Non-Impacted Areas identified in this characterization unit Historical Site Assessment and process knowledge indicate no need for this classification

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

Non-Impacted Areas

0

0

0

0

0

0

Non-Impacted Totals

Class 1 Areas

No Class 1 Areas identified in this characterization unit Historical Site Assessment and process knowledge indicate no need for this classification

N/A

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N/A

N/A

N/A

N/A

N/A

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0

Class 1 Totals

G12-A-001 3		Areas are not expected to contain, or have ever contained, any residua radioactivity greater than the DCGL. Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL. A 5% scan will be biased towards areas of greatest potential for containmation Scan percentages are justified due to the historical process knowledge of the facility and exterior characterization results of surrounding facilities. Additional biased measurements have been prescribed and will be collected to ensure uniform coverage of all building surfaces. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP and will not be used in any statistical analysis (i.e., MARSSIM Sign Test)	Areas are not expected to contain, or have ever contained, any residua radioactivity greater than the DCGL <sub>w</sub> . Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL <sub>w</sub> A 5% scan will be biased towards areas of greatest potential for contamination Scan percentages are justified due to the historical process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL <sub>w</sub> A 5% scan will be biased towards areas of greatest potential for contamination scan percentages are justified due to the historical process knowledge of the facilities
		2945	of S452 & 134
112-A-001		6	м
	Class 3 Areas	12-A-001	112-A-002

Biased measurement locations include high traffic areas such as building entrances, exits, and hallways, HVAC intakes and exhaust ducts, storage areas, areas of frequent personnel contact such as doors and door frames, and horizontal surfaces

		Areas are not expected to contain, or have ever contained, any residua radioactivity greater than the DCGL <sub>W</sub> . Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL <sub>W</sub> . A 5% scan will be biased towards areas of greatest potential for contamination. Scan percentages are justified due to the historical process knowledge of the facility and exterior characterization results of surrounding facilities. Additional biased measurements have been prescribed and will be collected to ensure uniform coverage of all building surfaces. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP and will not be used in any statistical analysis (i.e., MARSSIM Sign Test)	Areas are not expected to contain, or have ever contained, any residua radioactivity greater than the DCGL <sub>W</sub> . Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL <sub>W</sub> . A 5% scan will be biased towards areas of greatest potential for contamination Scan percentages are justified due to the historical process knowledge of the facility and exterior characterization results of surrounding facilities. Additional biased measurements have been prescribed and will be collected to ensure uniform coverage of all building surfaces. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP and will not be used in any statistical analysis (i.e., MARSSIM Sign Test)
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		15-random 10-biased 2-QC	15-random 10-biased 2-QC
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		835	842
		Interior & Exterior of T452A	Interior & Exterior of T452B
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y God.	leas	G12-A-003	G12-A-004
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Biased measurement locations include high traffic areas such as building entrances, exits, and hallways, HVAC intakes and exhaust ducts, storage areas, areas of frequent personnel contact such as doors and door frames, and horizontal surfaces

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reas	G12-A-005	G12-A-006
Class 3 Areas	¥	∢

Biased measurement locations include high traffic areas such as building entrances, exits, and hallways, HVAC intakes and exhaust ducts, storage areas, areas of frequent personnel contact such as doors and door frames, and horizontal surfaces

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Class 3 Arreas	Areas								:		
∢	G12-A-007	ю	Interior & Exterior of T452E	of T452E	91	20	٧n	15-random 2-QC	15-random	0	Areas are not expected to contain, or have ever contained, any residual radioactivity greater than the DCGLw. Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGLw. A 5% scan will be biased towards areas of greatest potential for contamination. Scan percentages are justified due to the historical process knowledge of the facility and exterior characterization results of surrounding facilities. Additional biased measurements have been prescribed and will be collected to ensure uniform coverage of all building surfaces. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP and will not be used in any statistical analysis (i.e., MARSSIM Sign Test)
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Biased measurement locations include high traffic areas such as building entrances, exits, and hallways, HVAC intakes and exhaust ducts, storage areas, areas of frequent personnel contact such as doors and door frames, and horizontal surfaces

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Class 3 Areas	reas		:					3	
∢	G12-A-009	 Interior & Exterior of T452G	G 1124	1 292	57	15-random 10-biased 2-QC	15-random 10-biased	0	Areas are not expected to contain, or have ever contained, any residua radioactivity greater than the DCGL <sub>w</sub> . Historical Site Assessment and process knowledge of this unit provide a high degree of confidence that no individual measurement will exceed the DCGL <sub>w</sub> . A 5% scan will be biased towards areas of greatest potential for contamination. Scan percentages are justified due to the historical process knowledge of the facility and exterior characterization results of surrounding facilities. Additional biased measurements have been prescribed and will be collected to ensure uniform coverage of all building surfaces. These additional biased measurements are above and beyond requirements set forth in the RFETS PDSP and will not be used in any statistical analysis (i.e., MARSSIM Sign Test)
		Class 3 Totals	ıls 8582	2 2240	434	210	210	0	
All Class Areas	Areas	All Class Totals	ıls 8582	2 2240	434	210	210	0	

\* Biased measurement locations include high traffic areas such as building entrances, exits, and hallways, HVAC intakes and exhaust ducts, storage areas, areas of frequent personnel contact such as doors and door frames, and horizontal surfaces